

CLAIMS LISTING

- 1.(currently amended) A stimuable phosphor screen comprising
 - a radiation-transparent substrate;
 - a stimuable phosphor layer formed on said substrate;
 - a first transparent organic film covering said stimuable phosphor layer; and
 - a second transparent film formed on said first transparent organic film,
wherein ~~characterized in that~~ said second transparent film is a multilayer polymeric film containing mixtures of ~~said~~ silazane or siloxazane polymers with compatible film-forming polymers.
- 2.(original) A stimuable phosphor screen according to claim 1, further comprising an intermediate transparent organic film between said substrate and said stimuable phosphor layer.
- 3.(original) A stimuable phosphor screen according to claim 1, wherein said organic film is a poly-paraxylylene film.
- 4.(previously presented) A stimuable phosphor screen according to claim 2, wherein at least one of said intermediate transparent organic film and said first transparent organic film is a poly-paraxylylene film.

- 5.(original) A stimuable phoshor screen according to claim 1,
wherein said substrate is an aluminum or an amorphous carbon
(a-C) substrate.
- 6.(original) A stimuable phoshor screen according to claim 2,
wherein said substrate is an aluminum or an amorphous carbon
(a-C) substrate.
- 7.(original) A stimuable phoshor screen according to claim 3,
wherein said substrate is an aluminum or an amorphous carbon
(a-C) substrate.
- 8.(original) A stimuable phoshor screen according to claim 4,
wherein said substrate is an aluminum or an amorphous carbon
(a-C) substrate.
- 9.(original) A stimuable phoshor screen according to claim 1,
wherein said storage phosphor is a binderless needle-shaped,
vapor-deposited CsBr:Eu phosphor.
- 10.(original) A stimuable phoshor screen according to claim 2,
wherein said storage phosphor is a binderless needle-shaped,
vapor-deposited CsBr:Eu phosphor.
- 11.(original) A stimuable phoshor screen according to claim 3,
wherein said storage phosphor is a binderless needle-shaped,
vapor-deposited CsBr:Eu phosphor.

- 12.(original) A stimuable phoshor screen according to claim 4,
wherein said storage phosphor is a binderless needle-shaped,
vapor-deposited CsBr:Eu phosphor.
- 13.(original) A stimuable phoshor screen according to claim 5,
wherein said storage phosphor is a binderless needle-shaped,
vapor-deposited CsBr:Eu phosphor.
- 14.(original) A stimuable phoshor screen according to claim 6,
wherein said storage phosphor is a binderless needle-shaped,
vapor-deposited CsBr:Eu phosphor.
- 15.(original) A stimuable phoshor screen according to claim 7,
wherein said storage phosphor is a binderless needle-shaped,
vapor-deposited CsBr:Eu phosphor.
- 16.(original) A stimuable phoshor screen according to claim 8,
wherein said storage phosphor is a binderless needle-shaped,
vapor-deposited CsBr:Eu phosphor.
- 17.(original) A radiation image sensor comprising a stimuable
phosphor screen according to claim 9, and an imaging device
disposed in order to face said stimuable phosphor screen.
- 18.(original) A radiation image sensor comprising a stimuable
phosphor screen according to claim 10, and an imaging device
disposed in order to face said stimuable phosphor screen.

- 19.(original) A radiation image sensor comprising a stimuable phosphor screen according to claim 11, and an imaging device disposed in order to face said stimuable phosphor screen.
- 20.(original) A radiation image sensor comprising a stimuable phosphor screen according to claim 12, and an imaging device disposed in order to face said stimuable phosphor screen.
- 21.(original) A radiation image sensor comprising a stimuable phosphor screen according to claim 13, and an imaging device disposed in order to face said stimuable phosphor screen.
- 22.(original) A radiation image sensor comprising a stimuable phosphor screen according to claim 14, and an imaging device disposed in order to face said stimuable phosphor screen.
- 23.(original) A radiation image sensor comprising a stimuable phosphor screen according to claim 15, and an imaging device disposed in order to face said stimuable phosphor screen.
- 24.(original) A radiation image sensor comprising a stimuable phosphor screen according to claim 16, and an imaging device disposed in order to face said stimuable phosphor screen.
- 25.(original) A radiation image sensor according to claim 17, wherein said imaging device is a CCD.

- 26.(original) A radiation image sensor according to claim 18,
wherein said
imaging device is a CCD.
- 27.(original) A radiation image sensor according to claim 19,
wherein said
imaging device is a CCD.
- 28.(original) A radiation image sensor according to claim 20,
wherein said
imaging device is a CCD.
- 29.(original) A radiation image sensor according to claim 21,
wherein said
imaging device is a CCD.
- 30.(original) A radiation image sensor according to claim 22,
wherein said
imaging device is a CCD.
- 31.(original) A radiation image sensor according to claim 23,
wherein said
imaging device is a CCD.
- 32.(original) A radiation image sensor according to claim 24,
wherein said
imaging device is a CCD.
- 33.(currently amended) A method of preparing a stimuable
phosphor screen or panel according to claim 1, said method

comprising the steps of:

- forming a stimuable phosphor layer on a radiation-transparent substrate;
- forming by low temperature, low pressure vaporization a first transparent organic film covering said stimuable phosphor layer and said stimuable phosphor layer comprises needle-shaped phosphor; and
- forming by sieve printing, dip coating, bar coating or spray coating a second transparent film formed on said first transparent organic film, wherein said second transparent film is a multilayer polymeric film containing mixtures of said silazane or siloxazane polymers with compatible film-forming polymers; and wherein ~~at least one of said first transparent organic film and said second transparent organic film~~ is a poly-paraxylylene film.

34-36 .(cancelled)

37.(original) A method according to claim 33, said method comprising an additional step of forming a third transparent film layer, wherein said third transparent film layer is a polymeric film covering said second transparent film layer.

38-40.(cancelled)

41.(previously presented) A method according to claim 37, wherein said third transparent film layer is a polymeric

film layer containing mixtures of said silazane or
siloxazane polymers with compatible film-forming polymers.

42-51. (cancelled)

52. (previously presented) The method of claim 41 wherein
said compatible film-forming polymer is urethane acrylate.

53-55. (cancelled)

56. (new) The method of claim 33 wherein said multilayer
polymeric film is a double or triple layer coating.

58. (new) The method of claim 33 wherein each layer coating of
said multilayer polymeric film is followed by curing and
drying.

59. (new) The method of claim 33 wherein each layer coating of
said double or triple layer coating of said polymeric film
is followed by curing and drying.

60. (new) A method of preparing a stimuable phosphor screen or
panel a radiation-transparent substrate wherein said
substrate comprises;

 a needle-shaped stimuable phosphor layer formed on
 said substrate;

 a first transparent organic film covering said
 stimuable phosphor layer; and

 a second transparent film formed on said first
 transparent organic film;

said method comprises:

forming a stimuable phosphor layer on a radiation-

transparent substrate;

forming by low temperature, low pressure vaporization a

first transparent organic film covering said needle-

shaped stimuable phosphor layer; and

forming by sieve printing, dip coating, bar coating or

spray coating a second transparent film formed on said

first transparent organic film;

wherein said second transparent film is a double or triple

layer polymeric film containing mixtures of silazane

or siloxazane polymers with compatible film-forming

polymers and wherein said first transparent organic

film is a poly-paraxylylene film.